

1 IN THE CLAIMS

2 1-30. (Cancelled)

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4 --31. (Currently Amended) An improved artificial nail composition comprising:

5 (a) ~~from about 0.1-98.5% less than 20%~~ by weight of at least one mult carbonyl-vinyl
6 containing monomer; and

7 (b) from about 5-98% by weight of at least one ethylenically unsaturated monomer.

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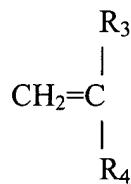
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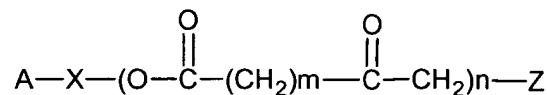
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1 32. (Previously presented) An improved artificial nail composition according to claim 31,

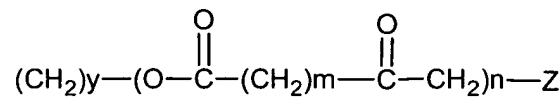
2 wherein said mult carbonyl-vinyl containing monomer has the formula:



10 wherein R₃ is H, a C₁₋₃₀ straight or branched chain alkyl, aryl, aralkyl; and R₄ is



14 or



20 wherein A =

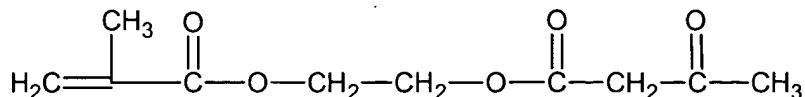


24 or,



28 X = C₁₋₃₀ straight or branched chain alkyl, m is 1 to 5, n is 1 to 30, y is 0 to 50; and z = H or a C₁₋
29 ₃₀ straight or branched chain alkyl.

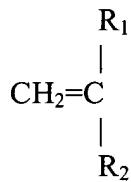
1 33. (Previously presented) An improved artificial nail composition according to claim 31,
2 wherein said mult carbonyl-vinyl containing monomer has the formula:



8 34. (Previously presented) An improved artificial nail composition according to claim 31, said
9 composition further comprising from about 0.001-5% by weight of a polymerization accelerator.

11 35. (Previously presented) An improved artificial nail composition according to claim 34,
12 wherein said polymerization accelerator is selected from the group consisting of aromatic tertiary
13 amines and aliphatic tertiary amines.

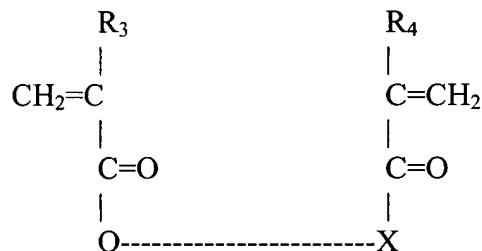
36. (Previously presented) An improved artificial nail composition according to claim 31,
wherein said ethylenically unsaturated monomer has the formula:



23 wherein R₁ is H, a C₁₋₃₀ straight or branched chain alkyl, aryl, aralkyl; R₂ is a pyrrolidone, or a
24 substituted or unsubstituted aromatic, alicyclic, or bicyclic ring where the substituents are C₁₋₃₀
25 straight or branched chain alkyl, or COOM wherein M is H, a C₁₋₃₀ straight or branched chain
26 alkyl, pyrrolidone, or a substituted or unsubstituted aromatic, alicyclic, or bicyclic ring where the
27 substituents are C₁₋₃₀ straight or branched chain alkyl which may be substituted with one or more
28 hydroxyl groups, or [(CH₂)_mO]_nH wherein m is 1-20, and n is 1-200.

1 37. (Previously presented) An improved artificial nail composition according to claim 31,
2 wherein said ethylenically unsaturated monomer comprises from about 50-98.5% by weight of a
3 methacrylate monomer and from about 3-20% by weight of a hydroxyalkyl methacrylate
4 monomer.

6 38. (Previously presented) An improved artificial nail composition according to claim 31,
7 wherein said ethylenically unsaturated monomer is a difunctional monomer having the formula:



wherein R₃ and R₄ are each independently H, a C₁₋₃₀ straight or branch chain alkyl, aryl, or aralkyl; and X is [(CH₂)_xO_y]_z wherein x is 1-20, and y is 1-20, and z is 1-100.

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22 39. (Previously presented) An improved artificial nail composition according to claim 31,
23 wherein said ethylenically unsaturated monomer is selected from the group consisting of
24 trifunctional acrylates, trifunctional methacrylates, polyfunctional acrylates and polyfunctional
25 methacrylates.

26
27 40. (Previously presented) An improved artificial nail composition according to claim 31, said
28 composition further comprising from about 0.001-5% by weight of a plasticizer.

1 41. (Previously presented) An improved artificial nail composition according to claim 40,
2 wherein said plasticizer is selected from the group consisting of esters, lactones, low volatility
3 solvents, nonionic organic surfactants and silicones.

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5 42. (Previously presented) An improved artificial nail composition according to claim 31, said
6 composition further comprising a component selected from the group consisting of UV
7 absorbers, stabilizers, colorants, and polymerization regulators.

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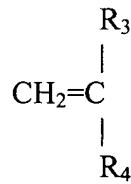
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1 43. (Currently Amended) An improved artificial nail composition comprising:

2 less than 20% by weight of

3 (a)



10 wherein R_4 is

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14 or

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21 or,

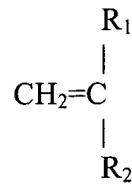


24 X = C₁₋₃₀ straight or branched chain alkyl, m is 1 to 5, n is 1 to 30, y is 0 to 50; and z = H or a C₁₋

30 straight or branched chain alkyl; and from about 5 to 98% by weight of

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2 (b)



9 wherein R₁ is H, a C₁₋₃₀ straight or branched chain alkyl, aryl, aralkyl; R₂ is a pyrrolidone, or a
10 substituted or unsubstituted aromatic, alicyclic, or bicyclic ring where the substituents are C₁₋₃₀
11 straight or branched chain alkyl, or COOM wherein M is H, a C₁₋₃₀ straight or branched chain
12 alkyl, pyrrolidone, or a substituted or unsubstituted aromatic, alicyclic, or bicyclic ring where the
13 substituents are C₁₋₃₀ straight or branched chain alkyl which may be substituted with one or more
14 hydroxyl groups, or [(CH₂)_mO]_nH wherein m is 1-20, and n is 1-200.

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16 44. (Previously presented) An improved artificial nail composition according to claim 43, said
17 composition further comprising from about 0.001-5% by weight of a polymerization accelerator.

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19 45. (Previously presented) An improved artificial nail composition according to claim 44,
20 wherein said polymerization accelerator is selected from the group consisting of aromatic tertiary
21 amines and aliphatic tertiary amines.

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23 46. (Previously presented) An improved artificial nail composition according to claim 43, said
24 composition further comprising from about 0.001-5% by weight of a plasticizer.

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1 47. (Previously presented) An improved artificial nail composition according to claim 43,
2 wherein said plasticizer is selected from the group consisting of esters, low volatility solvents,
3 nonionic organic surfactants and silicones.

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5 48. (Previously presented) An improved artificial nail composition according to claim 43, said
6 composition further comprising a component selected from the group consisting of UV absorbers
7 and polymerization regulators.--

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